Pragatitioner's Docket No. <u>U 014998-5</u>

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**PATENT** 

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Paten of	nt application	
OI		entor(s)
for _		
	Title o	f invention
	application of: Andrei Darievich MIRZA l No.: 10/763,949	OR BEKOV, et al. Group No.: 1645
	: January 23, 2004 COMPOSITION FOR IMMOBILIZA	Examiner: TION OF BIOLOGICAL MACROMOLECULES R PREPARING A COMPOSITION, A BIOCHIP,
P. O.	missioner for Patents . Box 1450 andria, VA 22313-1450	
	WITHIN THREE M BEFORE MAILING OF FIRST (  CERTIFICATION UND	TION DISCLOSURE STATEMENT ONTHS OF FILING OR OFFICE ACTION (37 C.F.R. 1.97(b))  ER 37 C.F.R. 1.8(a) and 1.10*
		press Mail label number is <b>mandatory</b> ; tification is optional.)
l hereb	by certify that, on the date shown below, this correspond	ondence is being:
		AILING velope addressed to the Commissioner for Patents, P. O. Box 1450,
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⊠ w	rith sufficient postage as first class mail.	as "Express Mail Post Office to Addressee"  Mailing Label No (mandatory)
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⊔ tr	ransmitted by facsimile to the Patent and Trademark C	Office. to (708) 872-9306
Date:	July 12, 2004	Signature  JANET I. CORD  (type or print name of person certifying)

\* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

NOTE: 37 C.F.R. 1.98(b): (1) Each U.S. patent listed in an information disclosure statement must be identified by inventor, patent number, and issue date. (2) Each U.S. patent application published listed in an information disclosure statement shall be identified by applicant, patent application publication number, and publication (3) Each U.S. application listed in an information disclosure statement must be identified by the inventor, application number, and filing date. (4) Each foreign patent or published foreign patent application listed in an information disclosure statement must be identified by the country or patent office which issued the patent or published the application, an appropriate document number, and the publication date indicated on the patent or published application. (5) Each publication listed in an information disclosure statement must be identified by

(5) Each publication listed in an information disclosure statement must be identified by publisher, author (fi any), title, relevant pages of the publication,,date, and place of publication.

WARNING: No extension of time can be had under 37 C.F.R. § 1.36 (a) or (b) for filing an IDS. 37 C.F.R. § 1.97(f).

NOTE: The "filing date of a national application" under 37 C.F.R. 1.97(b) has two possible meanings. Where the filing is a direct one to the United States Patent & Trademark office, the filing is defined in 37 C.F.R. 1.53(b) as "the date on which: (1) A specification containing a description pursuant to § 1.71 and at least one claim pursuant to § 1.75; and (2) any drawing required by § 1.81(a), are filed in the Patent and Trademark Office in the name of the actual inventor or inventors as required by § 1.41." 37 C.F.R. 1.97(b)(1). On the other hand, an international application that enters the national stage occurs when the applicant has filed the documents and fees required by 35 U.S.C. § 371(c) within the periods set forth in § 1.494 or § 1.495. 35 U.S.C. § 371(c) requires the filing of the following: (1) the national fee; (2) a copy of the international application, unless already sent by the International Bureau, and an English translation if filed in another language; (3) amendments under PCT Article 19, with a translation into English if made in another language; (4) an oath or declaration; and (5) a translation into English of any annexes to the international preliminary examination report, if such annexes were made in another language. 37 C.F.R. 1.97(b)(2).

## IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. 1.97(b).

- NOTE: "No certification or fee is due when the filing is made within the above time period. It is advisable to ensure that no Office action has been mailed if the disclosure statement is delayed until after three months from filing."
- NOTE: "An information disclosure statement will be considered to have been filed on the day it was received in the Office, or on an earlier date of a mailing if accompanied by a properly executed certificate of mailing under 37 C.F.R. 1.8, or Express Mail certificate under 37 C.F.R. 1.10. An office action is mailed on the date indicated in the Office action." Notice of April 20, 1992 (1138 O.G. 37-41, 39).
- NOTE: "The term 'national application' includes continuing applications (continuations, divisions, continuationsin-part) so three-months will be measured from the actual filing date of an application as opposed [sic] to the effective date of a continuing application." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

NOTE: "An action on the merits means an action which treats the patentability of the claims in an application, as opposed to only formal or procedural requirements. An action on the merits would, for example, contain a rejection or indication of allowability of a claim or claims rather than just a restriction requirements (37 C.F.R. 1.142) or just a requirement for additional fees to have a claim considered (37 C.F.R. 1.16(d)). Thus, if an application was filed on Jan. 1 and the first Office action on the merits was not mailed until six months later on July 1, the examiner would be required to consider any proper information disclosure statement filed prior to July 1." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING: "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63).

If a fee is required, please charge deposit account 12-0425.

SIGNATURE OF PRACTITIONER

SIGNATURE OF FRACTITIONE

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(type or print name of practitioner)

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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Andrei Darievich MIRZABEKOV, et al.

Serial No.: 10/763,949

Group No.: 1645

Filed: January 23, 2004

Examiner:

For:

COMPOSITION FOR IMMOBILIZATION OF BIOLOGICAL

MACROMOLECULES IN HYDROGELS, A METHOD FOR PREPARING A COMPOSITION, A BIOCHIP, AND A METHOD FOR PERFORMING THE PCR

OVER BIOCHIP

Attorney Docket No.: U 014998-5

Commissioner for Patents P. O. Box 1450

Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

We draw the attention of the Examiner to the attached references, some of which are considered in the specification, which are also listed on the attached Form PTO-1449.

JANET I. CORD C/o LADAS & PARRY 26 WEST 61 STREET **NEW YORK, N.Y. 10023** Reg. No. 33,778 (212) 708-1935 Respectfully submitted,

Janet I. Cord

### CERTIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10\*

(When using Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.)

I hereby certify that, on the date shown below, this correspondence is being:

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Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under  $\S$  1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

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applicant.

U. S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.	SERIAL NO.				
U 014998-5	10/763,949				
APPLICANT					
Andrei Darievich MII	RZABEKOV et al.				
FILING DATE	FILING DATE GROUP				
01/23/2004	1645				

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- RE	FEREN	CE DESIGNATION		J.S. PATENT DOCU	MENTS	T		
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		FILING DATE IF APPROPRIATE		
	AA	5,552,270	09/1996	Khrapko et al.				
	АВ	5,770,721	06/1998	Ershov et al.				
	AC							
	AD							
FOREIGN PATENT DOCUMENTS								
		DOCUMENT			TRA	TRANSLATION		
		NUMBER	DATE	COUNTRY	YES	NO		
	ΑE							
	AF							
	OTHER ART (Including Author, Title, Date, Pertinent Dates, Etc.)							
	AG	Rehman, Farah N. et al. "Immobilization of acrylamide-modified oligonucleotides by co-polymerization" Nucleic Acids Research (1999), 27(2): 649-655						
	АН	Guschin, Dmitry et al. "Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips",  Analytical Biochemistry (1997), 250(2): 203-211  Clark, V. M. et al. "Studies on Phosphorylation. Part XV. The Use of Phosphoramidic Esters in						
	ΑI							
	AJ							
	AK	Saito, Isao et al. "Photochemical Ring Opening of Thymidine and Thymine in the Presence of Primary Amines", <i>Tetrahedron Letters</i> (1981), 22(34): 3265-3268						
	AL	Stuart, Alexander and H. G. Khorana. "Studies on Polynucleotides; XXXIII. The Labeling of End Groups in Polynucleotide Chains: The Selective Acetylation of Terminal Hydroxyl Groups in Deoxyribopolynucleotides ", <i>The Journal of Biological Chemistry</i> (1964), 239(11): 3885-3892						
	АМ	Proudnikov, Dmitri et al. "Immobilization of DNA in Polyacrylamide Gel for the Manufacture of DNA and DNA-Oligonucleotide Microchips", <i>Analytical Biochemistry</i> (1998), 259: 34-41						
	AN	Strizhkov, Boris N. et al. "PCR Amplification on a Microarray of Gel-Immobilized Oligonucleotides: Detection of Bacterial Toxin- and Drug-Resistant Genes and Their Mutations", <i>BioTechniques</i> (2000), 29: 844-857						
		Tillib, Sergei V. et al. "Integration of Multiple PCR Amplifications and DNA Mutation Analyses by Using Oligonucleotide Microchip", <i>Analytical Biochemistry</i> (2001), 292: 155-160						
	AO					tion Analyses by Osing		